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# Regulator Pressure Ratings

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**B-31**

**B-838**

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**B-32 & B-33**

**CL-31**

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**B-39 & B-39II**

**CL-34**

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**B-42**

**CL-38**

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**B-34S**

**CL-838**

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**B-34**

**B-36**

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**B-38**

**B-35**

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**B-531**

**B-56**

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# SCOPE

Section 192.195 (b) (1) of the DOT Code Part 192 specifies... "Pressure regulation devices capable of meeting the pressure (conditions)...that will be experienced in normal operation...and in the event of failure of some portion of the system...". ASME Guide For Gas Piping Systems - 1973, defines 5 pressure ratings for regulators. The pressure ratings herein conform to these definitions. The pressure ratings listed are maximum conditions and the regulator bulletin must be checked for orifice vs. Inlet pressure vs. Outlet pressure for recommended operating pressures.

# PRESSURE RATINGS

1. Maximum inlet pressure at which the regulator will perform in accordance with manufacturer's specifications.
2. The maximum pressure to which the inlet may be subjected under abnormal conditions without causing damage to the regulator.
3. The maximum outlet pressure to which the regulator will perform in accordance with the manufacturer's specifications.
4. The maximum pressure to which the outlet may be subjected under abnormal conditions, without causing damage to internal parts of the regulator.
5. The maximum outlet pressure which can be safely contained by pressure carrying components such as diaphragm cases, actuators, pilots, control lines, etc. "Safely contained" means no bursting or leakage. However, normal internal relief action is not included in leakage.

# B-31 N, R, RAS, IMN, & IMR

## MAXIMUM INLET

B31 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N, R, RAS, IMN, & IMR	IN. W. C.	125	125	125	100	65	40	OPERATING
		300	300	300	150	150	100	EMERGENCY
	PSIG	175	175	125	100	60	40	OPERATING
		300	300	300	150	150	100	EMERGENCY

NOTE: "N" regulator cannot be used without additional safety equipment above 60 PSIG inlet. Internal relief and internal monitor regulators can be used up to 125 PSIG.

## OUTLET RANGE: 5" W.C. - 2 PSIG

## MAXIMUM OUTLET

B31 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N, R, RAS, IMN, & IMR	IN. W. C.	60 PSIG						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT
	PSIG	60 PSIG						EMERGENCY - NO DAMAGE
		60 PSIG						CONTAINMENT

NOTE: Does not include normal relief function.

# B-32 N & R, B33 N & R

## MAXIMUM INLET

B-32 & B-33 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N & R	IN. W. C.	125	65	35	15	15	5	OPERATING
		300	200	150	100	75	40	EMERGENCY
	PSIG	125	125	85	75	60	20	OPERATING
		300	200	150	100	75	40	EMERGENCY

NOTE: "N" regulator cannot be used without additional safety equipment above 60 PSIG inlet. Internal relief regulators can be used up to 125 PSIG.

OUTLET RANGE: 5" W.C. - 5 PSIG

## MAXIMUM OUTLET

B31 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N, R, RAS, IMN, & IMR	IN. W. C.	60 PSIG						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT
	PSIG	60 PSIG						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT

NOTE: Does not include normal relief function..

# B-39(II) N, R, & RAS

## MAXIMUM INLET

B-39 (II) MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N, R, & RAS	IN. W. C.	125	125	60	35	20	10	OPERATING
		300	250	200	150	125	75	EMERGENCY
	PSIG	175	175	125	100	60	40	OPERATING
		300	250	200	150	125	75	EMERGENCY

NOTE: "N" regulator cannot be used without additional safety equipment above 60 PSIG inlet. Internal relief and internal monitor regulators can be used up to 125 PSIG.

OUTLET RANGE: 5" W.C. - 2 PSIG

## MAXIMUM OUTLET

B-39 (II) MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N	IN. W. C.	4 PSIG + SET PRESSURE						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT
	PSIG	4 PSIG + SET PRESSURE						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT

NOTE: Does not include normal relief function..

B-39 (II) MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
R	IN. W. C.	60 PSIG						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT
	PSIG	60 PSIG						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT

NOTE: Does not include normal relief function..

## B-42 N, R

### MAXIMUM INLET

B-42 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N & R	IN. W. C.	125	125	60	35	20	10	OPERATING
		300	200	150	100	75	40	EMERGENCY
	PSIG	125	125	60	35	20	10	OPERATING
		300	200	150	100	75	40	EMERGENCY

NOTE: "N" regulator cannot be used without additional safety equipment above 60 PSIG inlet. Internal relief and internal monitor regulators can be used up to 125 PSIG.

### OUTLET RANGE: 5" W.C. - 5 PSIG

### MAXIMUM OUTLET

B-42 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/8	3/16	1/4	5/16	3/8	1/2	
N & R	IN. W. C.	60 PSIG						EMERGENCY - NO DAMAGE
		30 PSIG						CONTAINMENT
	PSIG	60 PSIG						EMERGENCY - NO DAMAGE
		30 PSIG						CONTAINMENT

NOTE: Does not include normal relief function..

## B-34 SN & SR

B-34S MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		¼ X 3/8	3/8 X ½	½ X 5/8	5/8 X ¾	¾ X 7/8	7/8 X 1	
N & R	IN. W. C.	125	60	25	15	10	10	OPERATING
		150	150	100	60	40	40	EMERGENCY
	PSIG	125	60	25	15	10	10	OPERATING
		150	150	100	60	40	40	EMERGENCY

NOTE: "N" regulator cannot be used without additional safety equipment above 60 PSIG inlet. Internal relief and internal monitor regulators can be used up to 125 PSIG.

OUTLET RANGE: 5" W.C. - 2 PSIG

MAXIMUM OUTLET

B-34S MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		¼ X 3/8	3/8 X ½	½ X 5/8	5/8 X ¾	¾ X 7/8	7/8 X 1	
N & R	IN. W. C.	60 PSIG						EMERGENCY - NO DAMAGE
		18 PSIG						CONTAINMENT
	PSIG	60 PSIG						EMERGENCY - NO DAMAGE
		60 PSIG						CONTAINMENT

NOTE: Does not include normal relief function..

## B-34 N, R, M, D, SO, IM, IMR, & IMRV

MAXIMUM INLET

B-34 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG							NOTES
		ORIFICE SIZE							
		¼	3/8	½	5/8	¾	7/8	7/8 X 1	
N, R, SO, IM, & IMR (a)	IN. W.C.	125	125	75	60	60	60	25	OPERATING
		300	300	300	300	300	230	170	EMERGENCY
M & D (b)	IN. W.C.	175	125	125	125	100	100	100	OPERATING
		300	300	300	300	300	230	170	EMERGENCY
All Series (b)	PSIG	175	175	150	150	150	150	150	OPERATING
		300	300	300	300	300	230	170	EMERGENCY

NOTE: (a) PART 192-197 (6)C For inlet pressure above 60 PSIG; (b) "M" used as a monitor regulator both ratings apply to inlet and outlet of valve body up to stem seal.

OUTLET RANGE: 5" W.C. - 5.75 PSIG

## MAXIMUM OUTLET

B-34 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE							NOTES
		ORIFICE SIZE							
		1/4	3/8	1/2	5/8	3/4	7/8	7/8X1	
All Series	IN. W. C.	60 PSIG							NO DAMAGE
							60 PSIG		CONTAINMENT
	PSIG	60 PSIG							NO DAMAGE
							60 PSIG		CONTAINMENT

NOTE: Does not include normal relief function..

## B-38 N, R, M, D, IM, IMR, & IMRV

### MAXIMUM INLET

B-38 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG									NOTES
		ORIFICE SIZE									
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1-3/8"			
N, R (a)	IN. W.C.	125	125	75	60	60	40	25			OPERATING
		300	300	300	300	170	125	100			EMERGENCY
M, D (b)	IN. W.C.	175	125	125	125	100	75	50			OPERATING
		300	300	300	300	170	125	100			EMERGENCY
ALL SERIES (b)	PSIG	175	175	150	150	100	75	50			OPERATING
		300	300	300	300	170	125	100			EMERGENCY
IM & IMR	IN. W.C.	125	125	60	60	30				OPERATING	
		300	300	300	300	170				EMERGENCY	

Note: (a) Part 192-197 (6) C for inlet pressure above 60 PSIG; (b) "M" used as a monitor regulator - both ratings apply to inlet and outlet of valve body up to the stem seal.

OUTLET RANGE: 5" W.C. - 8.7 PSIG

### MAXIMUM OUTLET

B-38 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE							NOTES
		ORIFICE SIZE							
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 3/8"	
ALL SERIES	IN. W. C.	8.7 PSIG							EMERGENCY - NO DAMAGE
							30 PSIG		CONTAINMENT
	PSIG	8.7 PSIG							EMERGENCY - NO DAMAGE
							30 PSIG		CONTAINMENT

Note: Maximum emergency outlet pressure - containment does not include relief action on "R" models.

# B-531 N, R, IM, IMR, & IMRV

## MAXIMUM INLET

B-531 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	
N, R	IN. W.C.	125	125	125	75	60	30	OPERATING
		300	300	300	150	150	100	EMERGENCY
IM	IN. W.C.	125	125	60	60			OPERATING
		300	300	300	150			EMERGENCY

Note: "N" Regulator cannot be used without additional safety equipment above 60 PSIG inlet. Internal relief "R" or internal monitor "IM" Models can be used to 125 PSIG.

OUTLET RANGE: 5" W.C. - 2.0 PSIG

## MAXIMUM OUTLET

B-531 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	
ALL SERIES	IN. W. C.	60 PSIG						EMERGENCY - NO DAMAGE
		60 PSIG						CONTAINMENT
	PSIG	60 PSIG						EMERGENCY - NO DAMAGE
		60 PSIG						CONTAINMENT

Note: Does not include normal relief function.

# B-838 N, R, M, D, IM, IMR, & IMRV

## MAXIMUM INLET

B-838 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG									NOTES
		ORIFICE SIZE									
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1-3/8"			
N, R	IN. W.C.	125	125	75	60	60	40	25			OPERATING
		300	300	300	300	300	170	125	100		EMERGENCY
M, D	IN. W.C.	175	125	125	125	100	75	50			OPERATING
		300	300	300	300	170	125	100			EMERGENCY
ALL SERIES	PSIG	175	175	150	150	100	75	50			OPERATING
		300	300	300	300	170	125	100			EMERGENCY
IM	IN. W.C.	125	125	60	60	30					OPERATING
		300	300	300	300	170					EMERGENCY

Note: "M" used as a monitor regulator - both ratings apply to inlet and outlet of valve body up to the stem seal.

OUTLET RANGE: 5" W.C. - 8.7 PSIG

## MAXIMUM OUTLET

B-838 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	
ALL SERIES	IN. W.C.	30 PSIG			30 PSIG			EMERGENCY - NO DAMAGE
								CONTAINMENT
	PSIG	30 PSIG			30 PSIG			EMERGENCY - NO DAMAGE
								CONTAINMENT

Note: Maximum emergency outlet pressure - containment (does not include relief action on "R" models).

# CL-31 N, R, IM, IMN, & IMR

## MAXIMUM INLET

CL-31 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG					NOTES
		ORIFICE SIZE					
		1/8	3/16	1/4	3/8		
ALL SERIES	PSIG	125	125	125	60		OPERATING
		175	175	175	90		EMERGENCY

Note: If inlet pressure is more than 60 PSIG outlet must be safetied not to exceed 60 PSIG.

OUTLET RANGE: 1 PSIG - 20 PSIG

## MAXIMUM OUTLET

CL-31 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE				NOTES
		ORIFICE SIZE				
		1/8	3/16	1/4	3/8	
ALL SERIES	IN. W.C.	60 PSIG		60 PSIG		EMERGENCY - NO DAMAGE
						CONTAINMENT
	PSIG	60 PSIG		60 PSIG		EMERGENCY - NO DAMAGE
						CONTAINMENT

Note: Does not include relief action of pilot internal relief valve.



# CL-34 M, D, N, R, IM, IMN, & IMR

## MAXIMUM INLET

CL-34 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	
M-1	IN. W.C.	175	175	175	175	175	175	OPERATING
		See Note						EMERGENCY
D-1	IN. W.C.	175	125	125	100	100	100	OPERATING
		See Note						EMERGENCY
M-1&2 D-1&2	PSIG	175	175	175	175	175	175	OPERATING
		See Note						EMERGENCY
IM-1	IN. W.C.	100	100	75	50	50	30	OPERATING
		See Note						EMERGENCY
IM-1&2 IM-1&2	PSIG	150	150	150	150	150	150	OPERATING
		See Note						EMERGENCY

Note: The maximum emergency inlet pressure is based on 75% of twice the differential pressure shown in "Main Regulator Closing Spring Data"; however, the inlet pressure is never to exceed 300 PSIG.

**OUTLET RANGE:** CL-1 Pilot = 5" W.C. - 5 PSIG  
CL-2 Pilot = 5 PSIG - 60 PSIG

Note: Each regulator is tested at 90 PSIG on the outlet side based on the same test requirement for meters (192.359) manufactures shell test pressure. Normal burst pressure is 120 - 130 PSIG.

## MAXIMUM OUTLET

CL-34 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	
ALL SERIES	IN. W.C.	66 PSIG						EMERGENCY - NO DAMAGE
		66 PSIG						CONTAINMENT
	PSIG	66 PSIG						EMERGENCY - NO DAMAGE
		66 PSIG						CONTAINMENT

Note: Does not include relief action of pilot internal relief valve.

# CL-38 N, R, IM, IMN, & IMR

## MAXIMUM INLET

CL-38 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG							NOTES
		ORIFICE SIZE							
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 3/8"	
ALL SERIES	IN. W.C.	125	125	125	125	75	60	50	OPERATING
		See Note							EMERGENCY
	PSIG	125	125	125	125	100	75	75	OPERATING
See Note							EMERGENCY		

Note: The emergency inlet pressure is based on 75% of twice the differential shown in "Main Regulator Closing Spring Data," however, the inlet pressure is never to exceed 200 PSIG.

**OUTLET RANGE:** CL-1 Pilot 5" W.C. - 5 PSIG

## CL-2 Pilot 5 PSIG - 30 PSIG

Note: Each regulator is tested at 90 PSIG on the outlet side based on the same test requirement for meter (192.359) manufacturers shell test pressure. Normal burst pressure is 120 to 130 PSIG.

### MAXIMUM OUTLET

CL-38 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE							NOTES
		ORIFICE SIZE							
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 3/8"	
ALL SERIES	IN. W.C.	40 PSIG							EMERGENCY - NO DAMAGE
		40 PSIG							CONTAINMENT
	PSIG	40 PSIG							EMERGENCY - NO DAMAGE
		40 PSIG							CONTAINMENT

Note: Does not include relief action of pilot internal relief valve.

## CL-838 N, R, IM, IMN, & IMR

### MAXIMUM INLET

CL-38 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG							NOTES
		ORIFICE SIZE							
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 3/8"	
ALL SERIES	IN. W.C.	125	125	125	125	75	60	50	OPERATING
		See Note							EMERGENCY
	PSIG	125	125	125	125	100	75	75	OPERATING
		See Note							EMERGENCY

Note: The emergency inlet pressure is based on 75% of twice the differential shown in "Main Regulator Closing Spring Data", however, the inlet pressure is never to exceed 200 PSIG.

**OUTLET RANGE:** CL-1 Pilot 5" W.C. - 5 PSIG  
CL-2 Pilot 5 PSIG - 30 PSIG

Note: Each regulator is tested at 90 PSIG on the outlet side based on the same test requirement for meter (192.359) manufacturers shell test pressure. Normal burst pressure is 120 to 130 PSIG.

### MAXIMUM OUTLET

CL-38 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE							NOTES
		ORIFICE SIZE							
		3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 3/8"	
ALL SERIES	IN. W.C.	40 PSIG							EMERGENCY - NO DAMAGE
		40 PSIG							CONTAINMENT
	PSIG	40 PSIG							EMERGENCY - NO DAMAGE
		40 PSIG							CONTAINMENT

Note: Does not include relief action of pilot internal relief valve.

# B-35 N, R & M

## MAXIMUM DIFFERENTIAL

B-35 MODEL SERIES	TYPE OF REG. PSIG TO	DIFFERENTIAL PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		3/32	1/8	3/16	1/4	3/8	1/2	
N	PSIG	1000	1000	1000	900	600	300	OPERATING
		1200						EMERGENCY
R	PSIG	1000	800	500	400	300	100	
		1200						EMERGENCY
M	PSIG	1000	Diff 1000	Diff 1000	Diff 1000	Diff 1000	Diff 1000	OPERATING
		1200						EMERGENCY

Note: When the B-35M is used as an operating regulator, use the pressure limits shown for B-35N for good regulation and control.

Note: "R" model relief will function with orifice sizes 3/16" and larger.

**OUTLET RANGE: 3 PSIG - 150 PSIG**

## MAXIMUM OUTLET

B-35 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		3/32	1/8	3/16	1/4	3/8	1/2	
ALL SERIES	PSIG	150 PSIG & NORMAL OUTLET PRESSURE SET						EMERGENCY - NO DAMAGE
		1000 PSIG						CONTAINMENT

Note: Does not include normal relief function.

# B-36 R

## MAXIMUM INLET

B-36 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/16	1/8	3/16	1/4	3/8	1/2	
ALL SERIES	PSIG	175	175	175	150			OPERATING
		300	300	300	300	300	300	EMERGENCY

Note: Inlet pressure per orifice size may be restricted by outlet pressure build-up due to relief capacity and the MAOP plus over pressure limits.

**OUTLET RANGE: 1 PSIG - 60 PSIG**

## MAXIMUM OUTLET

B-36 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/16	1/8	3/16	1/4	3/8	1/2	
ALL SERIES	PSIG	300 PSIG						EMERGENCY - NO DAMAGE
		300 PSIG						CONTAINMENT

Note: Does not include normal relief function.

# B-56 R

## MAXIMUM INLET

B-36 MODEL SERIES	TYPE OF REG. PSIG TO	INLET PRESSURE PSIG						NOTES
		ORIFICE SIZE						
		1/16	1/8	3/16	¼	3/8	1/2	
ALL SERIES	PSIG	1000	1000	1000	600	200	200	OPERATING
		1200						EMERGENCY

Note: Inlet pressure per orifice size may be restricted by outlet pressure build-up due to relief capacity and the MAOP plus over pressure limits.

**OUTLET RANGE: 1 PSIG - 60 PSIG**

## MAXIMUM OUTLET

B-36 MODEL SERIES	TYPE OF REG. PSIG TO	OUTLET PRESSURE						NOTES
		ORIFICE SIZE						
		1/16	1/8	3/16	¼	3/8	1/2	
ALL SERIES	PSIG	300 PSIG						EMERGENCY - NO DAMAGE
		300PSIG						CONTAINMENT

Note: Does not include normal relief function.

# SALES OFFICES

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